

APPENDIX A

RPID=1105489063-30856-30166294485.BLASTQ4,

<http://www.ncbi.nlm.nih.gov/BLAST/Blast.cgi>

>gi|31795107|gb|AC005383.2| **Homo sapiens** chromosome 10 clone CIT967SK-1144G6 map 10q25.1, complete sequence
length = 121774

Score = 1405 bits (709). Expect = 0.0
Identities = 747/753 (99%). Gaps = 5/753 (0%)
Strand = Plus / Plus

Query: 2614 ggactctttagatgcggccctcgnggcacatggatctccatgcaggaggcgacgacggcgatccc 2673
Subject: 78153 ggatcttttagatgcggccctcgnggcacatggatctccatgcaggaggcgacgacggcgatccc 78212

Query: 2674 cccccccagccaaactacacggggaaaggccctggggcaccggaaatggtgccatcccccttggggatggcc 2733
Sbjct: 28213 cccccccccatggccatggggaaaggccctggggcaccggaaatggtgccatcccccttggggatggcc 78272

Query: 2054 CCCACGAAACGGCGCTGGAAAGCTCTGGCTGAGTAAACCCACTTCTGTGACCC 2913
Subject: 20529 CGGGCGAAACGGCTGGCTGGAAAGCTCTGGCTGAGTAAACCCACTTCTGTGACCC 78452

Query: 3994 gccacggccctttcaagatggaaaggcgcgcgtttccacttccccccggaaatccggat 3153

Query: 3214 tttcgcggtgtggggagagacttggaaagggtccggactg-atagtgtgtggccatccggccgt 3272

Query: 3331 aaaaaacgtttcgatccgtggatcgatggccatggccatcc 3363

Score = 1140 Bits (575), Expect = 0.0
Identities = 575/575 (100%)
Strand = Plus / Plus

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<http://www.ncbi.nlm.nih.gov/BLAST/Blast.cgi>

Subjct: 72934 ggccaccatctggccggcttttttgtggggccaaaglcttccgtgaagcggttttgtgcgggccc 72993

Query: 1444 gtgtctgagcgaggactctggggccggagtggtgggtgtggccacatcacagctggggagctgtg 1503

Subjct: 72994 gtgtctgagcgaggaccctcgggggccggagtgggtgtggccacatcacagcaggggagctgtc 73053

Query: 1504 gtgggggggtgcctgtggggggagtaccaggatgtgcctgtgcacccggctggggccctcgatggc 1563

Subjct: 73054 gtgggggggtgcctgtggggggagtaccaggatgtgcctgtgcacccggctggggccctcgatggc 73113

Query: 1564 atcccccccccgtggtgcccccacccctgacggggcagtgccctgtggggcaggcggcagagcgt 1623

Subjct: 73114 atcccccccccgtggtgcccccacccctgacggggcagtgccctgtggggcaggcggcagagcgt 73173

Query: 1624 ggcttcggggggccaccaggacaggccaggacccggccacgttaggtgggggggggggggggggggg 1683

Subjct: 73174 ggcttcggggggccaccaggacaggccaggacccggccacgttaggtgggggggggggggggggg 73233

Query: 1684 actgagtcacactccggaggatcgagggttgtggggggccaggcgctgtacgcacgggggggggggg 1743

Subjct: 73234 actgagtcacactccggaggatcgagggttgtggggggccaggcgctgtacgcacgggggggggg 73293

Query: 1744 ctgtccctgtgggtgtggccgtgtggccgtgtggggccggatggctgggggggggggggggggggg 1803

Subjct: 73294 ctgtccctgtgggtgtggccgtgtgg 73353

Query: 1804 agcccaaaagcatgtgtatgggtttactcggtatccatggatctgttccaaatccctgtg 1863

Subjct: 73354 agcccaaaagcatgtgtatgggtttactcggtatccatggatctgttccaaatccctgtg 73411

Query: 1864 ctgcaggggaaatgtgtgcggccggcagg 1898

Subjct: 73414 ccgcaggggaaatgtgtgcggccggcagg 73448

Score = 1075 bits (543). Expect = 0.0
Identities = 553/555 (99%). Gaps = 1/555 (0%)
Strand = Plus / Plus

B1D=1105489063-30856-30166294485.BLASTQ4.

<http://www.ncbi.nlm.nih.gov/BLAST/Blast.cgi>

Subject: 76291 cggtcgtggggcggtggggccctgtccctaaatgtggggctcgccggagggttgcaggccccggg 76350

Query: 2374 atccccctgaacccacgtggcagcttacggccacctggcggttccacccaaaggccgtgccttcattg 2423
Subject: 76351 atccccctgatccacgtggcagcttacgcgcggcttggcggttccacccaaaggccgtgccttcattg 76410

Query: 2434 agtgggctgtgtggag 2448
||| ||| ||| |||
Subject: 76411 agtgggctgtgtggag 76425

Score = 526 bits (316), Expect = e-176
Identiticty = 316/316 (100%)
Strand = Plus / Plus

Query: 2 acatgtgttcgcggctgcacccgtcgaggctggggatgcacccggctgaaatgtggaaatcttt 61
Sbjct: 26189 acatgtgttcgcggctgcacccgtcgaggctggggatgcacccggctgaaatgtggaaatcttt 26218

Query: 62 ttccatcttcgacccggggggatggccggcttggaaaaacgcggggggctctatgcaccc 121
Subject: 26249 ttccatcttcgacccggggggatggccggcttggaaaaacgcggggggctctatgcaccc 26308

Query: 122 ctggccggatgtttccctccggacccctcageccgggttcgggttcgtgtccgtccctcccccaggagaga 181
Sbjct: 26309 ctggccggatgtttccctccggacccctcageccgggttcgggttcgtgtccgtccctcccccaggagaga 26388

Query: 182 caaaacgggtgtcccaacgtggcagggcgccggccgtggcccttttttggatccccgttagcgc 241
Sbjct: 26169 caaaacgggtgtcccaacgtggcagggcgccggccgtggcccttttttggatccccgttagcgc 26428

Query: 242 cccctggcccgagccgcgcggcttgtggatggccggccggcaccggcgctgt 301
Sbjct: 26429 cccccggccggatggccgcgcggccggcttgtggatggccggccggcaccggcgctgt 26488

Query: 302 cgcccgcttcctttccg 317
||| ||| ||| ||| |||
Sbjct: 26489 cgcccgcttcctttccg 26504

Score = 391 bits (197), Expect = e-105
Identitites = 197/197 (100%)
Strand = Plus / Plus

Query: 699 aggaggggcgcacggggacggaaaccttgcctgtggaaataccttgcacaggggttgctgg 758
Sbjct: 59676 aggaggggcgcacggggacggaaaccttgcctgtggaaataccttgcacaggggttgctgg 59735

Query: 759 Aggcagaaatgttttgtgccccagatccatcatcgtaactgtatggggaatgtcccgagg 818
Subject: 59736 aggcagaaatgttttgtgccccagatccatcatcgtaactgtatggggaatgtcccgagg 59795

Query: 819 ggatcgccatccaaaggctgtggaaagggtgtcaactgttgttctgtggg 878
Sbjct: 59796 ggatcgccatccaaaggctgtggaaagggtgtcaactgttgttctgtggg 59855

Query: 879 ggccagggtccccagg 895
||||| ||||| ||||| |||||
Sbjct: 59856 ggccagggtccccagg 59872

Score = 335 bits (169). Expect = 4e-88
Identities = 169/169 (100%)
Strand = Plus / Plus

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Query: 2417 agaagccaaaggccaggccaaacccttgtcaaaaccctggccctgttgtaaatggggcagctg 2506
Subject: 77174 agaagccaaaggccaggccaggccaaacccttgtcaaaaccctggccctgttgtaaatggggcagctg 77232

Query: 2507 cgtcttgtcagaatggggactaccgtgcggatgtggctggggaggggccccactg 2566
Sbjct: 77234 cgtcttgtcagaatggggactaccgtgcggatgtggctggggaggggccccactg 77293

Query: 2567 cgagaaacctggagctggactctgtctgtatgtgtggccagggtgg 2615
Sbjct: 77294 cggaaacctggagctggactctgtctgtatgtgtggccagggtgg 77342

Score = 272 bits (137), Expect = 5e-69
Identities = 137/137 (100%)
Strand = Plus / Plus

Query: 2011 ctccageggccacggccag 1027
Sbjct: 64967 ctccaaaggccacccagg 64983

Score = 270 bits (136), Expect = 2e-68
Identities = 136/136 (100%)
Strand = Plus / Plus

Query: 10285 cagaactcgagggtcgaaaggctcacccctcgatggacacaggccgtggagatggccggggatg 1084
Sbjct: 65652 cagaactcgagggtcgaaaggctcacccctcgatggacacaggccgtggagatggccggggatg 65711

Query: 1085 tcgtctggccatgtccccatgtggagagggatcgccggccggcccttgggggtctgggtgcac 1144
Sbjct: 65712 tcgtctggccatgtccccatgtggagagggatcgccggccggcccttgggggtctgggtgcac 65771

Query: 1145 actgtggcccccacag 1160
1|||||1|||||1|||||1
Sbjct: 65772 actgtggcccccacag 65787

Score - 270 bits (136), Expect - 2e-68
Identities - 136/136 (100%)
Strand - Plus / Plus

Query: 455 tgatgtggcgtccggcgtcgtggacatcatgttttgcgttagatcggttccatcacgcgtcg 514
Subject: 41851 tgatgtggcgtccggcgtcgtggacatcatgttttgcgttagatcggttccatcacgcgtcg 41910

Query: 575 tcggccccggaggggt 590
||| ||| ||| ||| |||
Sbjct: 41971 tcggccccggaggggt 41986

R1D=1105489063-30856-30166294485.BLASTQ4,

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Score - 220 bits (111). Expect - 2e-53
Identities - 111/111 (100%)
Strand - Plus / Plus

Querry: 588 ggtccagactggggacatcccgatctcgatccactcttcatcttggaaatccccccttggatcc 647
 |||||||
Searched: 4812310 ggtccagactggggacatcccgatctcgatccactcttcatcttggaaatccccccttggatcc 48180

Score = 218 bits (110), Expect = 7e-53
Identities = 110/110 (100%)
Strand = Plus / Plus

Query: 1215 agggccctgtgactcgccaggccctggccagaatggggcacatgtgttccaggaaaggactggaa 1274
Sbjct: 71797 agggccctgtgactcgccaggccctggccagaatggggcacatgtgttccaggaaaggactggaa 71856

Score = 153 bits (77), Expect = 3e-33
Identities = 77/77 (100%)
Strand = Plus / Plus

Query: 378 agcgccccatcttcctcccgaggaaatgcgtatgcggaaacccatcgggaaat 437
Sbjct: 40585 agtgccccatcttcctcccgaggaaatgcgtatgcggaaacccatcgggaaat 40644

Query: 438 ~~ttcaggctgccaggaaaa~~ 454
 |||||||||||||||
Subject: 40645 ~~ttcaggctgccaggaaaa~~ 40651

Score = 117 bits (59), Expect = 2e-22
Identities = 59/59 (100%)
Strand = Plus / Plus

Query: 1159 agctggaaagagagatgtgccttacccatctgtgcaccgtatcaggaccacccgtccagg 1217
Sbjct: 69450 agctggaaagagagatgtgccttacccatctgtgcaccacccgtatcaggaccacccgtccagg 69508

Score = 117 bits (59). Expect = 2e-22
Identities = 62/63 (98%)
Strand = Plus / Plus

Query: 317 gttatataccatgcggccctttccctgttgtctggaggccggatgtgtttttctgtttttccca 376
Sbjct: 35698 gttatataccatgcggccctttccctgttgtctggaggccggatgtgtttttctgtttttccca 35698

Query: 377 gag 379
|||
Subject: 35699 gag 35701